

CITY OF GOODYEAR  
GENERAL NOTES FOR STREET LIGHTS

- A. ALL GENERAL CONSTRUCTION NOTES SHALL APPLY.
- B. THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES, AND MANUFACTURER'S RECOMMENDATIONS.
- C. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHOULD VERIFY DIMENSIONS AT THE SITE, IMMEDIATELY REPORT DIFFERENCES TO THE CITY ENGINEER OR HIS/HER DESIGNEE AND SHOULD NOT PROCEED WITH WORK UNTIL THE CITY ENGINEER OR HIS/HER DESIGNEE RENDERS A DECISION.
- D. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN THE PUBLIC RIGHT-OF-WAY.
- E. LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED. DAMAGED PAINT OR COATINGS SHALL BE REPAIRED TO CITY ENGINEER OR HIS/HER DESIGNEE'S SATISFACTION.
- F. DIRECT BURIED POLES SHALL BE SET IN A TWELVE (12) INCH AUGURED HOLE, DEPTH PER PLANS, IN UNDISTURBED EARTH. POLE SHALL BE SET PLUMB IN TWO DIRECTIONS 90 DEGREES APART. HAND TAMPING OF ABC BACKFILL WITH PNEUMATIC OR VIBRATING EQUIPMENT IS THE ACCEPTABLE METHOD OF COMPACTION. BACKFILL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DEFINED BY ASTM D-2922 AND D-3017. SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
- G. DIRECT BURIED PORTION OF POLE SHALL BE COATED WITH VALSPAR VM 355 COAL TAR EPOXY 28 MILS OF THICK WET, 20 MILS OF THICK DRY AFTER EPOXY HAS DRIED CONFORMALLY HALF LAP POLE WITH CORROSION RESISTANT 10 MIL RUBBER TAPE. THIS TAPE SHALL BE UNIFORM AND WITHOUT FOLDS, WRINKLES OR GAPS.
- H. POLES WILL BE INSTALLED PER APS STANDARD DETAILS AND THE CITY OF GOODYEAR ENGINEERING AND DESIGN GUIDELINES POLICY MANUAL. SEE APS STREET LIGHT NUMBER DETAIL FOR STREET LIGHT NUMBERS.
- I. INSTALL #1 4/2 Cu WITH 14 Cu GND TYPE UF-B, 90°C, 600V CABLE IN 1" Car FLEX CONDUIT.
- J. CONDUIT SHALL BE INSTALLED PER APS REQUIREMENTS. COORDINATE WITH APS FOR CONDUIT SIZE, TYPE AND ROUTING. SEE SECTION 600 IN APS SERVICE MANUAL FOR TRENCHING REQUIREMENTS.
- K. INSTALL #1 4/2 Cu WITH 14 Cu GROUND TYPE UF-B, 90°C, 600V CABLE IN POLE FROM HANDHOLE TO LUMINAIRE. PROVIDE 12-INCHES OF SLACK FOR TERMINATION.
- L. INSTALL BUSSMANN HEB SERIES BREAK-A -WAY FUSEHOLDER WITH INSULATION BOOT AND TYPE KTK 5 AMP FUSE IN POLE HANDHOLE FOR EACH UNDERGROUND CONDUCTOR. LEAVE MINIMUM OF 12-INCHES OF SLACK IN CONDUCTORS FOR SERVICING THE FUSES AND FUSEHOLDERS OUTSIDE THE POLE.
- M. INSTALL LAMINATED PLASTIC NAMEPLATE ON POLE TO READ "SERVICE DISCONNECT LOCATED INSIDE HANDHOLE". FASTEN NAMEPLATE WITH SELF-TAPPING STAINLESS STEEL SCREWS.
- N. INSTALL BARE #8 SOLID Cu GROUNDING ELECTRODE CONDUCTOR FROM POLE GROUND LUG TO GROUND ROD AND ATTACH. MAKE SURE THE CONNECTION TO THE GROUND LUG AND TO THE GROUND ROD IS TIGHT AND SOLID.
- O. INSTALL UNDERGROUND JUNCTION BOX AND GROUND ROD PROVIDED BY APS, PER APS DETAIL 8655-8657. APS WILL INSTALL FUSING IN J-BOX. ON 277V CIRCUITS, INSTALL A "277 VOLT"

MICARTA TAG ON CABLE IN J-BOX. TAG SHALL BE PROVIDED BY APS. APS REQUIRES CITY INSPECTION AND CLEARANCE PRIOR TO SERVICE CONNECTION.

- P. BEFORE DIGGING OR DRIVING GROUND ROD, BE SURE TO CALL BLUE STAKE TO GET UNDERGROUND FACILITIES LOCATED. SEE SECTION 100, PARAGRAPH 100.12 OF THE APS SERVICE REQUIREMENTS MANUAL. IF GROUND ROD CANNOT BE DRIVEN, AN ALTERNATE GROUNDING METHOD SHALL BE USED. SEE APS DETAILS 2449 THRU 2460 FOR ALTERNATIVE GROUNDING METHODS.
- Q. EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATION SHALL BE PER THE ELECTRIC UTILITY COMPANY STANDARDS.
- R. LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCELL. CONTRACTOR SHALL ASSURE THAT THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT BEFORE HE LEAVES THE SITE. ADJUST PHOTOCELL TO FACE NORTH.
- S. LUMINAIRES FURNISHED WITH MULTI-TAP BALLASTS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY
- T. A MINIMUM CLEARANCE OF 7-FEET MUST BE PROVIDED TO FIRE HYDRANTS.
- U. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH "MAG" SPECIFICATION SECTION 107.9.
- V. ACCEPTANCE OF THE COMPLETED IMPROVEMENTS WILL NOT BE GIVEN UNTIL 4 MIL PHOTO MYLAR REPRODUCIBLE "AS BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE CITY ENGINEER OR HIS/HER DESIGNEE. ALL APS POLE NUMBERS SHALL BE RECORDED ON THE AS-BUILTS.
- W. THE DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT TO SUCCESSFULLY PERFORM THE FOLLOWING TEST:
  - 1. PRIOR TO ACCEPTANCE THE DEVELOPER SHALL ENERGIZE AND OPERATE THE ENTIRE ROADWAY LIGHTING SYSTEM, FROM SUNSET TO SUNDOWN FOR THREE CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF A LAMP OR BALLAST SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACE.
- X. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE BY THE CITY ENGINEER OR HIS/HER DESIGNEE, AGAINST IMPERFECT WORKMANSHIP, FAILURE, OR MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP. THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE CITY.
- Y. THE DEVELOPER SHALL BE FINANCIALLY RESPONSIBLE FOR THE COST OF OPERATION AND MAINTENANCE OF THE STREET LIGHTS THROUGH THE COMPLETION OF THE TWO YEAR WARRANTY PERIOD.